

PROXY NETWORK LAYER PROTOCOL SUPPORT IN A WIRELESS COMMUNICATION NETWORK

ABSTRACT

A method and system for supporting a network layer protocol in a wireless communication network are presented. A network element, such as a packet data serving node (PDSN), receives, from a mobile device, a first packet of a receive packet stream. If the first packet conforms to a first predetermined protocol, then at least a portion of the first packet is forwarded to a router that supports the first predetermined protocol. The network element receives a second packet forwarded by the router. If the second packet conforms to the first predetermined network layer protocol, then at least a portion of the second packet is transmitted in a transmit packet stream. As such, the network element need not natively support the first predetermined protocol.